



Technical Data Sheet

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Material: Ecomass® Compound 1850ZD96

Nontoxic alternative to Lead (Pb), weighting and balancing applications

Description / Features: High Specific Gravity, Tungsten Powder Filled Polyamide 6 (PA6), Rigid

Processing Method: Injection Molding

Physical Properties					
Test Method	English		SI		
	Value	Units	Value	Units	
Physical Properties					
Product Form	Pellets		Pellets		
Density	ASTM D792	10.0	g/cc	10.0	g/cc
Mechanical Properties					
Tensile Strength	ASTM D638	7,900	psi	54	MPa
Tensile Modulus	ASTM D638	NA	psi	NA	psi
Tensile Elongation at Break	ASTM D638	3	%	3	%
Flexural Modulus	ASTM D790	2,600,000	psi	17,931	MPa
Flexural Strength	ASTM D790	10,500	psi	72	MPa
Izod Impact Strength	ASTM D256	1.5	ft-lb/in	80	J/m
Thermal Properties					
Heat Deflection Temperature at 66 psi	ASTM D648	160	°F	71	°C
Heat Deflection Temperature at 264 psi	ASTM D648	140	°F	60	°C
Processing Information					
Melt Temperature Range		490 - 550	°F	255 - 290	°C
Mold Temperature Range		150 - 180	°F	65 - 85	°C
Mold Shrinkage Rate		.004 - .006	in/in	0.4 - 0.6	%
Pre-Drying Conditions		2 - 4 hours @ 165 °F		2 - 4 hours @ 75 °C	

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